

Army-Fort Lee, Va. -15623-78-100-1

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**NOVEMBER 1978** 

### UNITED STATES ARMY LOGISTICS CENTER FORT LEE, VIRGINIA 23801

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11 Nov 78 7 (2) 47 p. 7

AIR MOVEMENT PLANNING SYSTEM
(AMPS)

VOLUME I

EXECUTIVE SUMMARY

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#### **FORWARD**

This is the Draft Executive Summary Report for the Air Movement Planning System (AMPS). The study report is published in 3 volumes: The Executive Summary, The Users Guide, and The System/Programmers Guide.

The work reported herein was accomplished by the US Army Logistics Center, Fort Lee, Virginia. Functional assistance was provided by the US Army Transportation School, Fort Eustis, Virginia.

Users of this volume are encouraged to recommend changes and submit comments for its improvement. Comments should be keyed to the specific page, paragraph, and line of the text in which the change is recommended. Reasons will be provided for each comment to insure understanding and complete evaluation. Comments should be prepared using DA Form 2028 (Recommended Changes to Publications) and forwarded directly to the Commander, US Army Logistics Center, ATTN: ATCL-OS, Fort Lee, Virginia 23801.

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### AIR MOVEMENT PLANNING SYSTEM

#### **EXECUTIVE SUMMARY**

#### CHAPTER 1

#### GENERAL SYSTEM INFORMATION

- 1-1. TITLE. Air Movement Planning System (AMPS).
- 1-2. SCOPE.
- a. The Air Movement Planning System is a computerized method of quickly and effectively planning cargo loads for C-130, C-141, and C-5 aircraft. It is primarily intended for use in Army unit moves, but its inherent flexibility makes it adaptable for movement of most types of cargo under various conditions.
- b. The inherent model flexibility provides options that give AMPS a collateral capability in staff and major command planning of movements incident to contingency operations, in support of the strategic and tactical planning at all levels.
- 1-3. TERMS EXPLAINED. Unique terms are not used in this document. Unique terms used in Volumes II and III are defined in those documents.

#### 1-4. OBJECTIVES.

- a. Provide to Army units with an air movement mission an automated method of preparing effective load plans for USAF aircraft that will provide a timely response within the dynamic environment of joint airlift operations. The system must be fast, accurate, make efficient use of aircraft, incorporate commander's priorities, maintain unit integrity, link trailers and/or crews with their respective vehicles and link units with specific aircraft.
- b. Present a standard format outlining the results of requirements computations. This is intended to facilitate and expedite Army-Air Force coordination in planning and executing joint air movements.

#### 1-5. OPERATION.

- a. AMPS is operational at the US Army Logistics Center via terminal operation to a CDC 6400/6500 data processing system at Data Processing Field Office (DPFO) Fort Leavenworth, Kansas.
- b. AMPS has been tested on IBM-360 computers at Fort Bragg, North Carolina, Fort Hood, Texas, and Fort Lee, Virginia.
- c. A sample computer run has been included as Appendix A of this document.

#### CHAPTER 2

#### SYSTEM DESCRIPTION

- 2-1. NARRATIVE. The Air Movement Planning System (AMPS) is a system of computer programs that provides a method for rapidly and efficiently planning and manifesting loads of Army unit equipment and personnel for transport by C-130, C-141, and C-5 aircraft. The programs validate and process input data prepared and maintained by the Army unit describing the cargo to be moved in detail adequate for load planning. The Load Program is controlled by the characteristics of the aircraft being loaded and by parameters and options input by the unit, or by the commander of the force being moved.
- 2-2. INPUT. AMPS is designed to utilize the following types of input.
  - a. Passenger and Load Data Prepared by the Army Unit.
- (1) Passengers are listed either by number of passengers or by passenger name.
- (2) Cargo dimensions and weight are described as the items are to be offered to the carrier.
- b. Options, Parameters, and Unit Sequence. The Major Army Command headquarters which is responsible for direction of the move prepares the input cards to select the options under which the programs are to be executed and the sequence in which the units are to be loaded.
- c. <u>Aircraft</u>. The Major Army Command prepares cards describing the types and quantities of aircraft which are to be loaded, in accordance with information provided by the Military Airlift Command (MAC).
- d. <u>Helicopter File</u>. The AMPS project manager at each installation will maintain a file (HELI-FILE) of helicopter type loads for input to AMPS.
- 2-3. PROGRAMS. AMPS includes the following programs:
- a. AMPS-VALIDATE PROGRAM (AMPS-VAL). This program edits, sorts, and validates all input data created by the user in accordance with paragraph 2-2 above. The cutputs include error diagnostics and a printout of the validated data. AMPS-VAL may be run as a unique program, or it may be run in conjunction with AMPS-LOAD. AMPS-VAL must be the first program executed.

- b. AMPS-LOAD PROGRAM (AMPS-LOAD). Utilizing cargo, passenger, and aircraft input in accordance with paragraph 2-2, this program plans aircraft loads following the logical principles used by Air Force MAC loadmasters. Loads are designed to efficiently use the cube and weight capabilities of the aircraft being loaded and, subject to efficiency, follow priorities stated by the units. Cargo items are placed so that the aircraft is within balance limits for safe flight. Passengers are added, within weight limits, when there is adequate space for reasonably comfortable seating. Related cargo items (e.g., truck and trailer) are loaded together, and passengers identified as equipment operators are placed in the same aircraft as the equipment. Output from this program includes a load diagram, cargo manifest, and passenger manifest for each load, and a statistical recapitulation for each unit. A listing of either cargo and passengers not loaded, or aircraft not used, or both are included at the end of the processing run.
- c. AMPS HELICOPTER STANDARD LOAD FILE MAINTENANCE PROGRAM (HELI-MAINT). This is a utility program used to update the Helicopter Standard Load File (HELI-FILE) which is used by AMPS-LOAD to control the loading of Army rotary-wing aircraft into USAF transport aircraft.
- 2-4. DOCUMENTS. In addition to this summary, AMPS includes the following documentation:
  - a. Vol II--Functional System Users Guide.
  - b. Vol III--System/Programmers Guide.

#### 2-5. FORMS.

- a. AMPS-1.
- (1) Card type "1," Options; selected by the user. (See Figure 2-1.)
- (2) Card type "2," Title of Computer Run.
- (3) Card type "3," Unit Sequence and Unit Combinations; selected by the user.
  - (4) Card type "4," Aircraft Parameters.
- b. AMPS-2. Card type "5." Format for Aircraft Data. (See Figure 2-2.)
- c. AMPS-3. Card type "6," Format for Cargo Data. (See Figure 2-3.)

- d. AMPS-4. Card type "6," Format for Passenger Data. (See Figure 2-4.)
- 2-6. SYSTEM OVERVIEW CHART. See Figure 2-5.

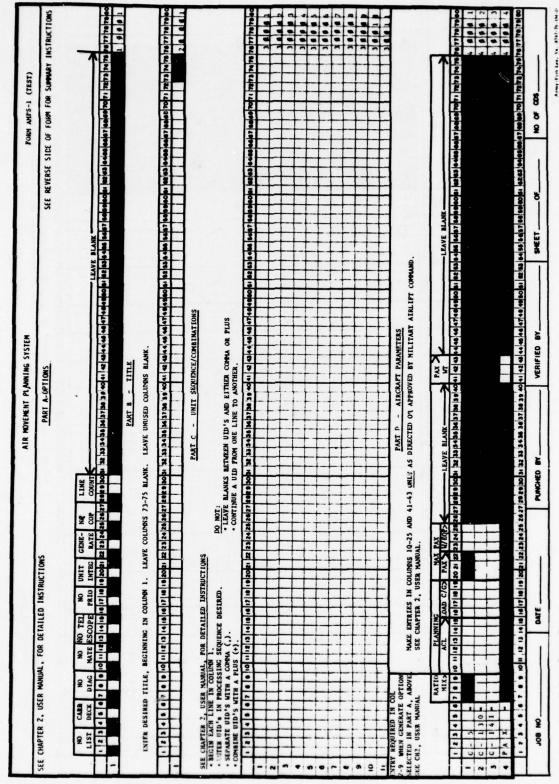


Fig 2-1. Control Data Input Format,

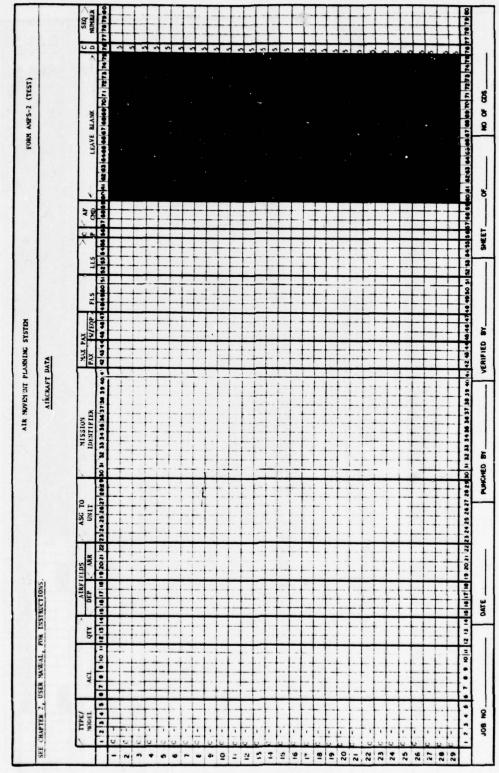


Fig 2-2. Aircraft Data Input Format.

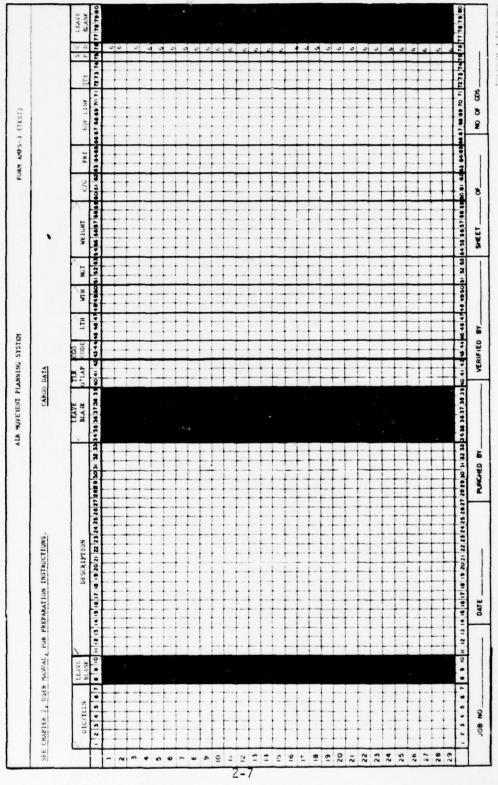


Fig 2-3. Cargo Data Input Format.

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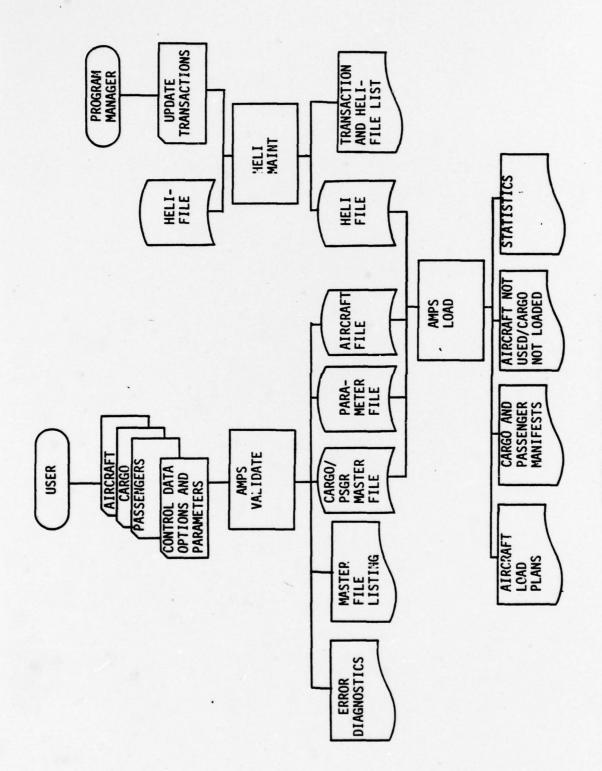


FIGURE 2-5 SYSTEM OVERVIEW CHART

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### APPENDIX A

## SAMPLE COMPUTER PROGRAM RUN

A computer run of the AMPS System is presented in this appendix. This output listing represents the results of a typical run of the documented operational version of the model.

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Aircraft Airlift						
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